# **Assignment -2**

Assignment Date	01-11-2022
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- 1. Create a User table with Username, email, roll number, password
- 2. Perform UPDATE and DELETE queries
- 3. Connect python code to database
- 4. Create Flask app for a User registration and User login

#### Solution:

#### App.py

```
from flask import Flask, render_template, request, redirect
import sqlite3 as sql
import models as
dbHandler
app = Flask( __name )_
app.secret_key =
'fasdgfdgdfg'
@app.route('/'
) def home():
 return render_template('home.html')
@app.route('/adduser')
def new_user():
 return render_template('add_user.html')
@app.route('/addrec',methods = ['POST', 'GET'])
def addrec():
 if request.method ==
   'POST': try:
    email = request.form['email']
    un = request.form['username']
```

```
rn =
    request.form['rollnumber']
    pin = request.form['pin']
    with sql.connect("User_database.db") as con:
      cur = con.cursor()
      cur.execute("INSERT INTO users (email,username,rollnumber,pin)
VALUES (?,?,?,?)",(email,un,rn,pin) )
     con.commit()
      msg = "Record successfully added!"
  except:
    con.rollback()
    msg = "error in insert operation"
  finally:
    return render_template("list.html",msg = msg)
    con.close()
@app.route('/list')
def list():
 con = sql.connect("User_database.db")
 con.row_factory = sql.Row
 cur = con.cursor()
 cur.execute("select * from users")
 users = cur.fetchall()
 return render_template("list.html", users = users)
if ___name == ' main ':
 app.run(debug = True)
@app.route("/delete
") def delete():
 return render_template("delete.html")
@app.route('/deleterecord',methods =
["POST"]) def deleterecord():
 un = request.form['username']
 with sql.connect("User_database.db") as con:
   try:
      cur = con.cursor()
      cur.execute("DELETE FROM users WHERE username = ?",[un])
      con.commit()
      msg = "Record successfully deleted"
    except:
      msg = "can't be deleted"
    finally:
      return render_template("home1.html",msg = msg)
```

```
if ___name == ' main ':
 app.run(debug = True)
@app.route('/deldb', methods = ["POST"])
def deldb():
 con =
 sql.connect('User_database.db') cur
 = con.cursor() cur.execute('DELETE
 FROM users;') con.commit()
 con.close()
 msg = 'All the data has been deleted'
 return render_template("home1.html",msg = msg)
@app.route("/log"
) def log():
 return render_template("login.html")
@app.route('/login', methods =['GET', 'POST'])
def login():
 un =
 request.form['username'] if
 request.method=='POST':
    users =
    dbHandler.retrieveUsers() msg =
    'Logged in successfully!'
    return render_template('welcome.html', users=un, msg=msg)
 else:
    msg = 'You are not registered, would you like to be registered'
    return render_template('home1.html', msg=msg)
if _name == '
                 _main ':
 app.run(debug=False,
 host='0.0.0.0')
Models.py
import sqlite3 as sql
def retrieveUsers():
 con =
 sql.connect("User_database.db") cur
 = con.cursor()
 cur.execute("SELECT username, pin FROM
 users") users = cur.fetchone()
 con.close()
```

return users

## sqlite\_db\_setup.py

## import sqlite3

```
conn =
sqlite3.connect('User_database.db')
print("Opened database successfully")

conn.execute('CREATE TABLE users (email TEXT, username TEXT, rollnumber INTEGER, pin INTEGER)')
print("Table created successfully")
conn.close()
```

#### **Home.html**

## <h1>Welcome to User DB APP</h1><br><br></r/>

```
<a href="/">HOME</a><br><a href="/adduser">User Registration</a><br><a href="/list">List User</a><br><br><a href="/log">Log in</a><br><br><a href="/delete">Remove a User</a>
```

# Add\_user.html

### <form action = "{{ url\_for('addrec') }}" method = "POST">

```
<h3>User
Information</h3> E-
mail<br/>dr>
<input type = "email" name = "email" /></br>
Username<br/>dinput type = "text" name = "username" /></br>
Rollnumber<br/>dinput type = "text" name = "rollnumber" /><br/>dinput type = "text" name = "rollnumber" /><br/>dinput type = "password" name = "pin" min="4" max="8" /><br/>dinput type = "submit" value = "submit" /> 
<input type = "submit" value = "submit" /> 
<input type = "reset"/></form>
```

### <u>list.html</u>

## <!doctype html>

```
<html> <body>
```

```
<a href="/">HOME</a><br><br>
 <a href="/adduser">Add New Student</a><br> <a
 href="/list">List Student</a><br><br><br><br>
 {{ msg }}
  <thead>
                Email
     Username 
     Roll Number 
    Pin
              </thead>
   {% for row in users %}
    {{row["email"]}}
     {{row["username"]}}
     {{ row["rollnumber"]}}
     {{row['pin']}}
    {% endfor %}
  </body>
</html>
```